



ND Roads – Mobile Travel Information Web page

General Information

- Welcome
 - Welcome to NDDOT’s mobile Travel Information web page. The web application is intended for use with smartphones to view information that is relevant to the traveling public. The application allows you to access this information in both a map and text view. **This web page is not to be used while driving.** For a quick overview of the road conditions within North Dakota select one of the pre-determined map/text views for information that you are interested in. Advanced options will allow users to add/remove map layers, save Favorites, identify features, search by keywords in the Text Version and select Common Routes.
- Adding icon to Home Screen
 - iPhone
 - Click the arrow button (3rd button) on the bottom toolbar within Safari.
 - In the dialog box, click on “Add to Home Screen.”
 - Change name to ND Roads and click “Add.” The ND Roads icon will be placed on your home screen.
 - Android
 - Bookmark the page you want to add to a home screen. Change the name to ND Roads.
 - Open the browser “Bookmarks” screen.
 - Tab and hold the bookmark you want.
 - Select “Add to Home screen” to place on your home screen.

Minimum Requirements

Tested

Operating System	Notes
iOS 5.1.1 or higher	No known issues
Android 2.3.4 or higher	v 2.3.4 bottom toolbar tends to float while scrolling
Windows	Limited functionality
Blackberry	Does not work

Desktop Browsers	Notes
Firefox	No known issues
Chrome	No known issues
Safari	No known issues
Internet Explorer	Does not work with IE 7 and 8 but does work in 9 or above

- jQuery - <http://jquerymobile.com/gbs/>

Known Issues

- Private Browsing
 - The Mobile Travel Information Application relies on information stored locally on the device. If “Private Browsing” or some other similar limitation to storing information locally is enabled, the application will not function properly.
- Location
 - Any type of Geolocation such as “Near Me” or “Locate” requires the use of the GPS on the device. If the application asks to you use your “Current Location” and you “Don’t Allow,” the Geolocation functionality will not function for the entire session.
- Internet Explorer
 - The Mobile Travel Information application was designed using jQuery Mobile to allow the widest range of smart phone and browser use. However, compatibility issues with Internet Explorer have been known to adversely affect application functions.
- Clearing Browser Cache
 - Clearing your browser cache/data will delete your Travel Map saved Favorites and any other saved setting.

- How to Use
 - General Information
 - Messages
 - A list of urgent messages important to the traveling public.
 - Click on the message down arrow to find additional information.
 - Map
 - An interactive map allowing users to view travel conditions, add/remove layers (optional items to display on map), tap (identify) features to find additional information about the condition, and find your location within the map.
 - Text
 - A text version of the travel conditions. The information is grouped by type of condition, then type of highway (Interstate, US Highways and then State Highways), highway number and highway mile post (traveling from west to east and south to north). Within the text view you have the ability to search for keywords such as cities, highways, travel speeds and conditions.
 - Near Me
 - Is a zoomed map view (centered on your location) of the most commonly viewed map layers for the current season.
 - Locate
 - Pans to your location on the map and centers the map on your location.
 - Information Updates (Last Updated)
 - In “Map” view>Click on “Layers”>Click on “Plus (+)” sign to view the last time the map was layer updated along with the layers legend.
 - The Travel Information application checks for updates every minute and if information has changed, it automatically updates the map layer.
 - Map Navigation/Functionality
 - Pan
 - Touch and move finger to pan map
 - Zoom In/Out
 - Utilize the “Zoom Level Slider” (+/- buttons located in upper right hand corner of map) and click on the “Plus (+) sign” to zoom in and the “Minus (-) sign” to zoom out.
 - Finger Gestures
 - iPhone
 - Pinch open to zoom in
 - Pinch close to zoom out
 - Touch screen to emulate a mouse click
 - Add/Remove Layers
 - In “Map” view>Click on “Layers”>Turn “On/Off Layers” by tapping the on/off flip switch >Click on “Update Map”
 - Map Tips
 - Click on map feature that you are interested in
 - Click right arrow to expand on information
 - Click on right arrow to scroll through identified features
 - Click on down arrow to minimize map tip
 - Click on “x” to close map tip
 - Common Routes
 - Common Routes are approximately 100 mile travel segments that are between the most populous cities in North Dakota. When viewing a Common Route, the system will query all the different conditions within that stretch of highway and present it to the user. For example, if you travel between Dickinson and Bismarck, you can select that Common Route and access all

the conditions along that route as well as cameras that are located between Dickinson and Bismarck.

- Favorites
 - There are certain features that you can bookmark as your Favorites such as a Common Route or a Camera. When you re-open the application you can click on the Favorites button and then go directly to that item.
- Travel Info
 - A listing of links to other state's and province's Travel Information websites along with travel tips and other formats of NDDOT's Travel Information.
- Technology
 - ESRI Javascript API - The ArcGIS API for JavaScript (JavaScript API) is a browser based API for developing high performance, easy to use mapping applications.
 - jQuery Mobile: Touch-Optimized Web Framework for Smartphones & Tablets – Is a unified, HTML5-based user interface system for all popular mobile device platforms, built on the rock-solid jQuery and jQuery UI foundation. Its lightweight code is built with progressive enhancement, and has a flexible, easily themeable design.